

METHOD AND APPARATUS FOR FRACTIONAL-N SYNTHESIS**ABSTRACT OF THE DISCLOSURE**

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A method and apparatus for fractional-N synthesis includes processing that begins by generating a 1st feedback frequency from the output frequency based on a fixed divider value. The processing continues by generating a 2nd feedback frequency from the output frequency based on a selectable divider value, a modified fractional value of the divider value, and a modified integer value of the divider value. The processing continues by determining whether the fractional value of the divider value is within a range of fractional values. If so, the 1st feedback frequency is used to produce the output. If the fractional portion of the divider value is not within the range of fractional values, the 2nd feedback frequency is used to produce the output frequency.

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